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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,496	12/05/2001	Bryan D. Wolf	IGT1P064/P-463	4155
22434	7590	07/19/2004	EXAMINER	
BEYER WEAVER & THOMAS LLP			CAPRON, AARON J	
P.O. BOX 778			ART UNIT	
BERKELEY, CA 94704-0778			PAPER NUMBER	
			3714	

DATE MAILED: 07/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

YW

<b>Office Action Summary</b>	<b>Application No.</b> 10/006,496	<b>Applicant(s)</b> WOLF, BRYAN D.	
	<b>Examiner</b> Aaron J. Capron	<b>Art Unit</b> 3714	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 May 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-46 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This is a response to the Amendment received on May 17, 2004, in which claims 1, 14 and 44 were amended. Claims 1-46 are pending.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10, 12-22, 24-25, 27-28, 30-36, 38-39, 41-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Lawrence et al. (U.S. Patent No. 5,967,893; hereafter “Lawrence”).

Lawrence discloses receiving the number representing the game arrangement (4:43-64); for a given position or symbol associated with the game arrangement, (a) setting the given position or symbol to a particular value of the position of symbol and calculating the number of ways to place the remaining free positions or symbols available beyond the given position or symbol (Column 5, Table 1), (b) using the calculated number of ways to place in a comparison with the received number representing the game arrangement (Column 5, Table 1), and (c) from the comparison, determining whether the particular value of the given position or symbol appears in the symbolic representation of the game arrangement (5:58-6:28); and setting one or more symbols or positions of the symbolic representation from the determination made in (c).

Referring to claim 2, Lawrence discloses determining from the comparison that the particular value of the given position does not appear in the symbolic representation of the game arrangement (5:58-6:28); incrementing the particular value of the position or symbol; and performing (a)-(c) on the incremented particular value of the position or symbol.

Referring to claim 3, Lawrence discloses repeating (a)-(c), with newly incremented particular values, until determining that the particular value of the given position or symbol does appear in the symbolic representation of the game arrangement (5:58-6:28); choosing a second given position of symbol associated with the game arrangement; and performing (a)-(c) for the second position or symbol associated with the game arrangement.

Referring to claim 4, Lawrence discloses subtracting the calculated number of ways to place from a current game arrangement number that is either (i) the number representing a game arrangement or (ii) a number that has been derived from the number representing a game arrangement (4:46-47).

Referring to claim 5, Lawrence discloses the number that has been derived from the number representing a game arrangement was derived by subtracting previously calculated number of ways to place for other particular values of the given position or symbol (Column 4).

Referring to claim 6, Lawrence discloses the number of ways to place is calculated with a permutation function, an exponential function, or a choose function, depending on how the particular game is classified (Column 4).

Referring to claim 7, Lawrence discloses the particular game is classified based on at least one of the following: whether the arrangement of symbols is position-dependent and whether a given symbol can appear more than once in the game arrangement (for a poker game).

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Referring to claims 8-10, Lawrence discloses the game can be poker, a slot machine, keno or checkers (abstract) and the computing machine is a gaming machine (1:6-9).

Referring to claim 12, Lawrence discloses retrieving the number representing the game arrangement from a stored list or table of possible game arrangements when a player initiates a game on a gaming machine (abstract).

Referring to claim 13, Lawrence discloses the number of ways to place is calculated with a software-coded function or look-up table, depending on how the particular game is classified (abstract).

Claims 14-22 and 24 correspond in scope to a method set forth for use of the computer program product listed in the claims above and are encompassed by use as set forth in the rejection above.

Claims 25, 27-28, 30-35 correspond in scope to a method set forth for use of the method listed in the claims above and are encompassed by use as set forth in the rejection above.

Claims 36, 38-39, 41-43 correspond in scope to a method set forth for use of the method listed in the claims above and are encompassed by use as set forth in the rejection above.

Claims 44-46 correspond in scope to a method set forth for use of the method listed in the claims above and are encompassed by use as set forth in the rejection above.

Claim 26 and 37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Lawrence.

Referring to claim 26, Lawrence discloses setting the current game arrangement number to zero at the beginning of the method (2:66-3:1, column 4). In the alternative, it is notoriously

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well known within the art of computer programming to define a number, such as the term “index”, to be zero in order to set the number as a non-null number. This procedure prevents software code from calculating abstract values that a computer cannot properly comprehend. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a game arrangement number to be zero into the method of Lawrence in order to prevent software code from calculating abstract values that a computer cannot properly comprehend.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 11, 23, 29 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawrence in view of Applicant's Admission.

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Referring to claims 11 and 23, Lawrence discloses a method of converting a number representing a game arrangement into a symbolic representation, but does not disclose retrieving the number representing the game arrangement from a game history storage location on a gaming machine. However, Applicant admits that gaming machines typically store information about recently played games or game sequences in non-volatile memory. Then, if a gaming machine fails for any reason, disputes between casinos and patrons and can be resolved by replaying the game histories in recorded in the nonvolatile memory or other storage medium in the gaming machine or casino (page 8, second full paragraph). One would be motivated to combine the references in order to determine the game sequences and outcomes by generating the history in case of a power failure. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a game history storage location into Lawrence's method in order to determine the game sequences and outcomes by generating the history in case of a power failure.

Claim 29 corresponds in scope to a method set forth for use of the method listed in the claims above and is encompassed by use as set forth in the rejection above.

Claim 40 corresponds in scope to a computer program product set forth for use of the method listed in the claims above and is encompassed by use as set forth in the rejection above.

### ***Response to Arguments***

Applicant's arguments filed May 17, 2004, have been fully considered but they are not persuasive. The arguments below are incorporated into the rejections above.

Applicants argue that Lawrence does not specifically disclose or suggest converting a number representing a game arrangement into a symbolic representation of the game arrangement. However, Lawrence discloses a computer-based method giving particular five card hands (symbolic representation of the game arrangement) to the players. A computer and its processors use binary numbers to manipulate data and these binary numbers are converted into symbolic representations on a computer monitor or display. Therefore, the claimed invention fails to preclude the invention of Lawrence.

Applicants argue that Lawrence fails to disclose or suggest looking to the past for calculating a number of sequentially arranged game arrangements skipped over to reach a game arrangement having a particular value set at the given position of symbol. However, Lawrence provides calculating a number of sequentially arranged game arrangements skipped over to reach a game arrangement having a particular value set at the given position of symbol (2:66-5:36 and 5:51-57). Therefore, the claimed invention fails to preclude the invention of Lawrence.

### ***Conclusion***

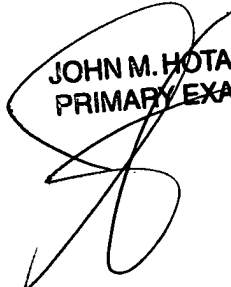
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron J. Capron whose telephone number is (703) 305-3520. The examiner can normally be reached on M-Th 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Hughes can be reached on (703) 308-1806. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ajc

  
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PRIMARY EXAMINER